

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562761

Luminaire Tested: **SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562761  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17852.9 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

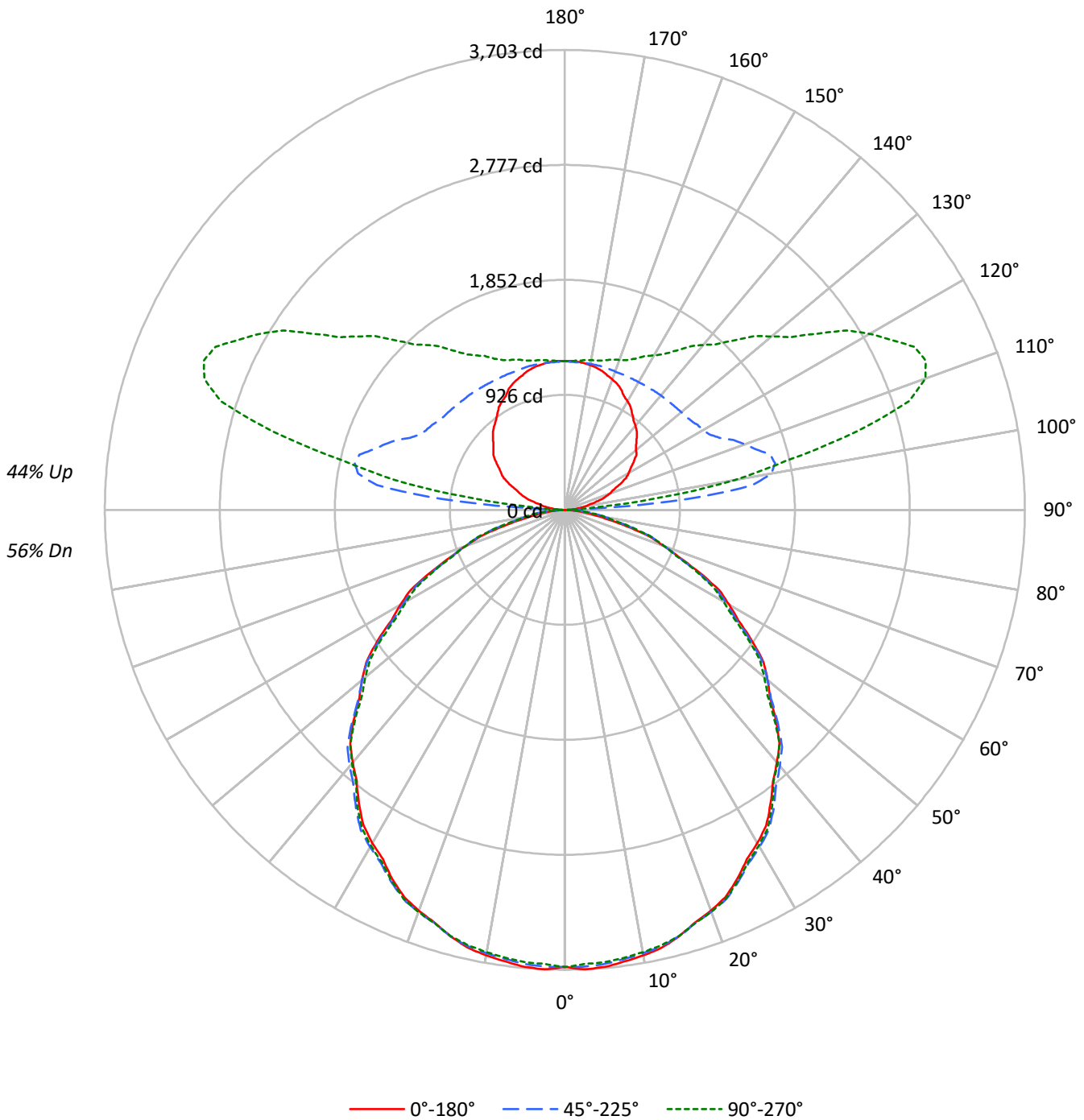
Input Watts (W): 162.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P562761

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P562761

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11219	11184
30°	11002	11135	11087
35°	10838	11004	10928
40°	10659	10810	10700
45°	10466	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7601	7662	7631
75°	6116	6763	6804
80°	4346	5735	5795
85°	2646	4810	4810



TEST NUMBER: P562761

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.4	2.0
10°-20°	999.7	5.6
20°-30°	1513.9	8.5
30°-40°	1815.0	10.2
40°-50°	1850.7	10.4
50°-60°	1615.5	9.0
60°-70°	1156.6	6.5
70°-80°	595.7	3.3
80°-90°	153.7	0.9
90°-100°	565.0	3.2
100°-110°	1554.4	8.7
110°-120°	1604.4	9.0
120°-130°	1285.5	7.2
130°-140°	1009.6	5.7
140°-150°	773.7	4.3
150°-160°	556.3	3.1
160°-170°	340.2	1.9
170°-180°	114.7	0.6
0°-30°	2862.0	16.0
0°-40°	4677.0	26.2
0°-60°	8143.2	45.6
0°-90°	10049.1	56.3
90°-120°	3723.8	20.9
90°-150°	6792.7	38.0
90°-180°	7804.0	43.7
0°-180°	17852.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3681	3681	3681	3681	3681	
5°	3695	3658	3671	3660	3657	351
15°	3555	3525	3555	3555	3551	1002
25°	3282	3259	3306	3296	3296	1511
35°	2887	2880	2931	2911	2911	1805
45°	2406	2400	2423	2392	2386	1852
55°	1840	1817	1817	1789	1789	1641
65°	1193	1166	1169	1159	1159	1180
75°	515	538	569	573	573	556
85°	75	115	136	140	136	102
90°	2	10	18	23	23	9
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

TEST NUMBER: P562761

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3681.0	3681.0	3681.0	3681.0	3681.0
2.5°	3702.8	3670.8	3681.0	3672.5	3659.2
5°	3694.6	3657.9	3670.7	3660.4	3657.1
7.5°	3668.0	3631.4	3648.2	3641.4	3638.0
10°	3643.5	3606.8	3626.4	3619.5	3616.2
12.5°	3610.8	3576.8	3599.2	3592.3	3591.7
15°	3554.9	3524.9	3554.9	3554.8	3551.4
17.5°	3484.6	3457.3	3489.4	3491.4	3489.4
20°	3435.6	3405.6	3445.8	3442.5	3445.8
22.5°	3375.6	3350.9	3394.0	3385.2	3388.5
25°	3282.2	3258.9	3306.1	3295.8	3295.8
27.5°	3171.8	3155.1	3206.5	3195.6	3195.6
30°	3098.1	3081.5	3135.6	3122.0	3122.0
32.5°	3016.3	3005.0	3056.6	3040.2	3040.2
35°	2886.8	2880.2	2931.1	2910.7	2910.7
37.5°	2753.2	2747.2	2793.4	2768.7	2760.7
40°	2655.1	2651.7	2692.6	2665.3	2665.3
42.5°	2556.9	2553.6	2588.9	2556.2	2556.2
45°	2406.3	2399.6	2423.3	2392.5	2385.8
47.5°	2242.0	2235.3	2250.2	2216.7	2213.3
50°	2130.2	2123.5	2130.2	2099.4	2096.1
52.5°	2015.7	2003.7	2004.8	1974.1	1973.4
55°	1840.5	1817.2	1816.6	1789.4	1789.4
57.5°	1655.1	1624.4	1627.1	1603.9	1600.5
60°	1526.9	1493.6	1496.2	1475.7	1472.4
62.5°	1401.5	1362.8	1370.8	1347.6	1347.0
65°	1192.9	1166.2	1169.0	1158.8	1158.8
67.5°	992.5	967.8	985.7	977.5	976.8
70°	845.3	828.6	852.1	852.0	848.7
72.5°	708.9	708.3	737.6	737.6	739.6
75°	514.7	538.0	569.2	572.6	572.6
77.5°	343.6	384.9	419.2	420.6	419.9
80°	245.4	292.1	323.8	330.5	327.2
82.5°	166.3	215.6	242.0	248.7	245.4
85°	75.0	115.0	136.3	139.7	136.3
87.5°	22.3	47.8	58.1	59.0	53.7
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0

TEST NUMBER: P562761

CATALOG NUMBER: SQ4-PC3-075U-100D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)